

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Anders HULTGREN

Atty. Ref.: 2466-81

Serial No.

Group:

Filed: December 27, 2000

Examiner:

For: A CACHE SERVER NETWORK

December 27, 2000

Assistant Commissioner for Patents  
Washington, DC 20231

**PRELIMINARY AMENDMENT**

Sir:

Prior to calculation of the filing fee and examination on the merits, please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please substitute the following amended claims 3, 4, 5, 6, 7, 9, 12, 13, and 14 for original claims 3, 4, 5, 6, 7, 9, 12, 13, and 14. A copy of original claims 3, 4, 5, 6, 7, 9, 12, 13, and 14 showing revisions is attached.

3. (*Amended*) A network according to claim 1, characterized in that the forecast server comprises means for ordering one particular cache server of said at least two cache servers to pre-fetch data having a higher probability of being requested than the data that is currently stored in that particular cache server.

4. (*Amended*) A network according to claim 1, characterized in that the forecast server is connected to a group of cache servers, which it controls via a control protocol.



5. (*Amended*) A network according to claim 1, characterized in that the forecast server has means for establishing a probability function for an address based on what other addresses [where] were demanded a time period before and after the address was demanded.

6. (*Amended*) A network according to claim 1, characterized in that the forecast server is co-located with one of said at least two cache servers.

7. (*Amended*) A network according to claim 1, characterized in that several forecast servers are connected to each other.

9. (*Amended*) A network according claim 7, characterized in that one of the forecast servers is arranged to control the others.

12. (*Amended*) A method according to claim 10, characterized in that the forecast server orders one particular cache server of the plurality of cache server to pre-fetch data having a higher probability of being requested than the data that is currently stored in that particular cache server.

13. (*Amended*) A method according to claim 10, characterized in that the forecast is made based on probability function for an address, which in turn is based on what other addresses were demanded a time period before and after the address was demanded.

14. (*Amended*) A method according to claim 10, when the network comprises several forecast servers to which different cache servers or groups of cache servers are connected, characterized in that the forecast servers can exchange information on which data that is stored in the different cache servers or groups of cache servers.

### **REMARKS**

By the foregoing amendment, claims 3, 4, 5, 6, 7, 9, 12, 13, and 14 have been amended to eliminate the multiple claim dependencies in order to minimize the filing fee. Claims 5 and 13 have been amended to correct a minor typographical error. A copy of original claims 3, 4, 5, 6, 7, 9, 12, 13, and 14 with annotations to show the revisions presented above is attached.

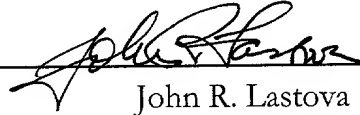
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Prompt and favorable consideration on the merits is respectfully requested.

Respectfully submitted,

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Attachment:  
Appendix of Claims

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## APPENDIX OF CLAIMS

3. (*Amended*) A network according to claim 1 [or 2], characterized in that the forecast server comprises means for ordering one particular cache server of said at least two cache servers to pre-fetch data having a higher probability of being requested than the data that is currently stored in that particular cache server.

4. (*Amended*) A network according to claim 1 [any of claims 1-3], characterized in that the forecast server is connected to a group of cache servers, which it controls via a control protocol.

5. (*Amended*) A network according to claim 1 [any of claims 1-4], characterized in that the forecast server has means for establishing a probability function for an address based on what other addresses [where] were demanded a time period before and after the address was demanded.

6. (*Amended*) A network according to claim 1 [any of claims 1-5], characterized in that the forecast server is co-located with one of said at least two cache servers.

7. (*Amended*) A network according to claim 1 [any of claims 1-6], characterized in that several forecast servers are connected to each other.

9. (*Amended*) A network according claim 7 [or 8], characterized in that one of the forecast servers is arranged to control the others.

12. (*Amended*) A method according to claim 10 [or 11], characterized in that the forecast server orders one particular cache server of the plurality of cache server to pre-fetch data having a higher probability of being requested than the data that is currently stored in that particular cache server.

13. (*Amended*) A method according to claim 10 [any of claims 10-12], characterized in that the forecast is made based on probability function for an address, which in turn is

based on what other addresses were [where] demanded a time period before and after the address was demanded.

14. (*Amended*) A method according to claim 10 [any of claims 10-12], when the network comprises several forecast servers to which different cache servers or groups of cache servers are connected, characterized in that the forecast servers can exchange information on which data that is stored in the different cache servers or groups of cache servers.

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